1	INTER CEATER DIGERICE COURT
1	UNITED STATES DISTRICT COURT Exhibit
2	EASTERN DISTRICT OF OKLAHOMA
2	2 TARY G. PANGU. PROPERTIES
2	LAZY S RANCH PROPERTIES, :
3	LLC, AN OKLAHOMA LIMITED :
4	LIABILITY COMPANY :
4	VS. : CASE NUMBER:
	: 6:19-cv-00425-JWB
5	:
	VALERO TERMINALING AND :
6	DISTRIBUTION COMPANY; :
	VALERO PARTNERS OPERATING :
7	CO. LLC; AND VALERO PARTNERS :
	WYNNEWOOD, LLC, :
8	
9	ORAL AND VIDEOTAPED DEPOSITION OF
10	SCOTT A. STOUT, PH.D., P.G.
11	September 27, 2022
12	ORAL AND VIDEOTAPED DEPOSITION OF SCOTT A. STOUT,
13	PH.D., P.G., produced as a witness at the instance
14	of the Plaintiff, and duly sworn, was taken in the
15	above-styled and numbered cause on the 27th day of
16	September, 2022, from 9:59 a.m. to 4:57 p.m., before
17	FELICIA A. NEWLAND, CSR, in and for the State of the
18	District of Columbia, reported by stenograph, at
19	Veritext Legal Solutions, 1250 I Street, Northwest,
20	Suite 35, Washington, D.C., pursuant to the Federal
21	Rules of Civil Procedure and the provisions stated
22	on the record or attached hereto.
	Page 1

1	Q What evaluation did you make specific	1	detections of individual volatile aromatic
2	to the Lazy S Ranch as to naturally occurring	2	hydrocarbons. All of those are J qualified
3	materials?	3	which you may want me to explain all in the
4	I know you cite that there's some	4	range of, you know, .25 to .08 parts per billion in
5	aspects of some of the soil samples in your report	5	soil. And then off to the far right there are 1.44
6	may be naturally occurring materials. What	6	to 3.68 part per million TPH DRO reported for those
7	investigation did you make of the existence of	7	soils.
8	naturally occurring vegetative materials on the	8	Q Okay.
9	Lazy S Ranch?	9	A Also J qualified.
10	A I've seen photographs of the	10	Q And J qualified means there's a
11	landscape there that shows there's indeed	11	does J qualified mean that it's below the
12	vegetation present. Irrespective of that, the	12	laboratory detection limit, but it's estimated by
13	chemistry of the soil samples told me there's	13	the lab, the concentration?
14	remnants of that vegetation present.	14	A It no.
15		15	
			Q Okay. What does it mean?
16	A Based upon the chromatogram, the	16	A It means the concentration was below
17	GC/FIDs.	17	the laboratory sample-specific reporting limit
18	Q GC/FIDs. Thank you, sir, for the	18	Q Reporting limit?
19	correction.	19	A but above the method detection
20	Did you do any testing of the organic	20	limit.
21	content of these soils near the pipelines?	21	Q Thank you.
22	A No. I I didn't analyze any soils. Page 202	22	And on Figure 3, that you mentioned Page 204
	1 ugo 202		-
1	They were all collected by Dr. Fisher and analyzed	1	earlier, these are the GCs for those that
2	at his laboratory.	2	sample?
3	Q Was any	3	A For each of those three samples, yes.
4	A I'm sorry, that's not true. I mean,	4	Q Okay. And what what is your
5	there were the three samples that from the	5	interpretation of these?
6	Q Right.	6	A They each contained predominantly
7	A January 2022 excavation.	7	biogenic chemicals, which is this naturally
8	Q I was I was just going to ask you	8	occurring organic matter we started this
9	about that. There were a couple of soil samples?	9	conversation about.
10	A Yes.	10	Q Yes, sir.
11	Q And those are found on Table 3,	11	A And the basis for that is they
12	correct?	12	exhibit the characteristic, quote, classic
13	A Yes. And their chromatograms, are	13	fingerprint of biogenic materials, well published.
14	all found on Figure 3.	14	Sample two
15	Q Figure 3.	15	Q What does it mean that they're within
1		16	the range of diesel range biogenic chemicals?
16	And just looking at Table 3, these		= = =
16 17	And just looking at Table 3, these results show that there was some, what, that Alpha	17	What does it mean that they're I
	results show that there was some, what, that Alpha	17 18	- 1
17 18	results show that there was some, what, that Alpha Labs collected from the what would you call that		mean, I see it on this Figure 3, you have, "Diesel
17 18 19	results show that there was some, what, that Alpha Labs collected from the what would you call that that was shown there that was present in the	18 19	mean, I see it on this Figure 3, you have, "Diesel range biogenic chemicals," and then, "residual
17 18 19 20	results show that there was some, what, that Alpha Labs collected from the what would you call that that was shown there that was present in the conventional soil that was collected by the	18 19 20	mean, I see it on this Figure 3, you have, "Diesel range biogenic chemicals," and then, "residual range biogenics." What's the distinction between
17 18 19 20 21	results show that there was some, what, that Alpha Labs collected from the what would you call that that was shown there that was present in the conventional soil that was collected by the defendant?	18 19 20 21	mean, I see it on this Figure 3, you have, "Diesel range biogenic chemicals," and then, "residual range biogenics." What's the distinction between those two, if there is one?
17 18 19 20	results show that there was some, what, that Alpha Labs collected from the what would you call that that was shown there that was present in the conventional soil that was collected by the	18 19 20	mean, I see it on this Figure 3, you have, "Diesel range biogenic chemicals," and then, "residual range biogenics." What's the distinction between those two, if there is one?

1	boil below C28, the upper limit of DRO or above	1	based on what your report says here, on the
2	that limit. And I explained this in the background	2	chemical fingerprint for B, it could be either
3	material in my report that, you know, TPH is a	3	diesel range or the coating for the pipeline. Is
4	manmade metric, and we divide that metric into	4	that your testimony?
5	different carbon ranges that we refer to as	5	A No.
6	gasoline range or diesel range or residual range,	6	Q What's your testimony?
7	but there are other things, for example, natural	7	A It's not diesel fuel and possibly the
8	organic matter that can occur within each of those	8	coating.
9	ranges that has nothing to do with petroleum, but	9	Q And if it's not any of those, what is
10	it's falsely measured as petroleum when it occurs	10	it?
11	in the diesel range or the residual range. And	11	A I don't know. And the reason I say
12	that's what's happening here with this natural	12	possibly the coating is because exactly, as your
13	organic matter.	13	question a few moments ago, I did not analyze it,
14	Q Okay. On the on the B sample,	14	but its description by the manufacturer indicates
15	there's a there's a reference to 20. What does	15	it contains waxes, which is what we see here.
16	that refer to?	16	Q Did you ask Valero for a sample of
17	A That refers to an alkane, again, a	17	the coating materials so you could do an analysis?
18	straight chain hydrocarbon with 20 carbons in a	18	A I don't believe we did I did
19	row.	19	suggest that. Again, this wasn't evident until
20	Q Is that part of the biogenic	20	after these soils had been collected and the hole
21	naturally occurring materials or is it different	21	closed up in January of 2020 2022 rather. So no
22	from that?	22	additional work went back to expose the pipeline
	Page 206		Page 208
1	A It's different. And it's, I think,	1	and collect this.
1 2	A It's different. And it's, I think, explained either on the bottom of the page or	1 2	and collect this. Q So the answer is you didn't ask for a
2	explained either on the bottom of the page or	2	Q So the answer is you didn't ask for a
2 3	explained either on the bottom of the page or certainly in the text.	2 3	Q So the answer is you didn't ask for a sample of the original pipeline coating, correct?
2 3 4	explained either on the bottom of the page or certainly in the text. Q Would you explain for the jury here	2 3 4	Q So the answer is you didn't ask for a sample of the original pipeline coating, correct? A No. At the time when I got these
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2 3 4 5 6	explained either on the bottom of the page or certainly in the text. Q Would you explain for the jury here today, sir? A I'm just reading the bottom of page	2 3 4 5 6	Q So the answer is you didn't ask for a sample of the original pipeline coating, correct? A No. At the time when I got these results and initiated my investigation as to what it could be, the literature on the pipeline coating
2 3 4 5 6 7	explained either on the bottom of the page or certainly in the text. Q Would you explain for the jury here today, sir? A I'm just reading the bottom of page 40 right now where I say, "The trace n-alkanes in B within the DRO range are not accompanied by a UCM which could indicate diesel fuel, but rather appear	2 3 4 5 6 7	Q So the answer is you didn't ask for a sample of the original pipeline coating, correct? A No. At the time when I got these results and initiated my investigation as to what it could be, the literature on the pipeline coating material explained its potential source
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	explained either on the bottom of the page or certainly in the text. Q Would you explain for the jury here today, sir? A I'm just reading the bottom of page 40 right now where I say, "The trace n-alkanes in B within the DRO range are not accompanied by a UCM which could indicate diesel fuel, but rather appear to be waxes possibly attributable to the pipelines coating material; see text." Because I know I've got a longer explanation earlier in the report. Q Okay. The coating material, did you do any analysis of Valero's coating material on this pipeline? A No, I did no chemical analysis. Q That's what I mean. A Just a literature analysis. Q A literature analysis. You did no chemical analysis? A That's right.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q So the answer is you didn't ask for a sample of the original pipeline coating, correct? A No. At the time when I got these results and initiated my investigation as to what it could be, the literature on the pipeline coating material explained its potential source satisfactorily to me. Q Did it have a an analysis similar to what's on the these tables in your report or your GC graph example that you could compare it to? A No. It didn't provide that level of detail. The descriptions of these Polyken coating material, the tapes that were used, is found in one of my footnotes or in the text on pages 14 and 15. Q So the answer is, is that you didn't have a similar detail for this commercial product description, you didn't have either an analytical result or GC/FID sample for this material, correct? A No, I didn't. As I said, the literature descriptions of their chemical
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	explained either on the bottom of the page or certainly in the text. Q Would you explain for the jury here today, sir? A I'm just reading the bottom of page 40 right now where I say, "The trace n-alkanes in B within the DRO range are not accompanied by a UCM which could indicate diesel fuel, but rather appear to be waxes possibly attributable to the pipelines coating material; see text." Because I know I've got a longer explanation earlier in the report. Q Okay. The coating material, did you do any analysis of Valero's coating material on this pipeline? A No, I did no chemical analysis. Q That's what I mean. A Just a literature analysis. You did no chemical analysis?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q So the answer is you didn't ask for a sample of the original pipeline coating, correct? A No. At the time when I got these results and initiated my investigation as to what it could be, the literature on the pipeline coating material explained its potential source satisfactorily to me. Q Did it have a an analysis similar to what's on the these tables in your report or your GC graph example that you could compare it to? A No. It didn't provide that level of detail. The descriptions of these Polyken coating material, the tapes that were used, is found in one of my footnotes or in the text on pages 14 and 15. Q So the answer is, is that you didn't have a similar detail for this commercial product description, you didn't have either an analytical result or GC/FID sample for this material, correct? A No, I didn't. As I said, the

1 2 3	you, that this phenomena is known to occur in karst settings.	1	Q Okay. And it's about how much of the
		2	pipeline and how long of the pipeline traverses the
	Q But we don't know if it's occurring	3	ranch?
4	in this particular setting or not, correct?	4	Three miles sound right?
5	A There's no reason to believe that	5	A I don't recall a number. I do my
6	it's not given the long-term manifestation of the	6	look at my scale on my diagram here and estimate it
7	conditions.	7	but
8	Q It could be a long-term leaking	8	Q Well, Doctor, you used the term, you
9	pipeline, couldn't it, Doctor?	9	said that the pipeline has been evaluated, but you
10	MR. JOHNSON: Objection. Form.	10	didn't see any any leaks or spills. I'm just
11	THE WITNESS: There's no evidence for	11	trying to get you to quantify how much of this
12	a long-term leaking pipeline, particularly the	12	pipeline over the karst has actually been evaluated
13	Valero pipeline, which has been investigated.	13	by Valero.
14	There's no data available. The data collected at	14	We've had 15 digs, you said. How
15	15 excavations along the Valero pipeline show no	15	much is actually exposed in each dig? How many
16	evidence of petroleum released. If there had been,	16	feet?
17	it would be evident.	17	A Tens.
18	BY MR. PAGE:	18	Q Tens of feet.
19	Q How much of the pipeline has not been	19	And if we had two miles of pipeline,
20	investigated?	20	do you think that's a reasonable representation of
21	A I don't know. Some fraction of it.	21	the the the pipeline's potential to
22	Q And how much of the pipeline overlays	22	leak on the Lazy S Ranch?
	Page 222		Page 224
1	the karst terrane at the Lazy S Ranch?	1	MR. JOHNSON: Objection. Form.
2	A Of the entire pipeline or	2	THE WITNESS: Those excavations were
3	Q Of the pipeline that's on the Lazy S	3	conducted at areas where other data indicated
4	Ranch, how much of it covers karst?	4	certain anomalies existed, anomalies potentially
5	Did you investigate that?	5	associated with thinning of the walls and so forth.
6	A I was just looking at a figure that	6	So it's, I think, common practice and due diligence
7	allowed me to, because it's my	7	to investigate those areas, which is what Valero
8	Q But I asked you prior to today, just	8	did. And the data collected in the soils around
9	right now, sitting in this deposition, did you	9	those are clean.
10	investigate that how much of the karst is how	10	BY MR. PAGE:
11	much of the pipeline runs over the karst on the	11	Q They're clean?
12	Lazy S Ranch?	12	A Oh, yes.
13	MR. JOHNSON: Objection. Form.	13	Q What do you mean by clean?
14	Go ahead.	14	A It's explained in my report.
15	THE WITNESS: I didn't investigate	15	Q There's no refined products in
16	it, I had it available to me.	16	that
17	BY MR. PAGE:	17	A That's correct.
18	Q Okay. Well, did you evaluate how	18	Q in that soil?
19	much of the pipeline overlays the karst?	19	A There's naturally occurring organic
20	A I didn't see a reason to evaluate it.	20	matter that's falsely measured as TPH DRO. There's
	I can look at it and see it's somewhere around	21	laboratory contamination from Accurate Laboratories
21 22	70 percent.	22	falsely measured as TPH DRO, but there's no

1	petroleum present.	1	Go ahead.
2	I'm sorry, I wanted to add the third	2	THE WITNESS: It doesn't change the
3	one. In the samples that were analyzed by me at	3	data that I have available to me.
4	Alpha, there's also evidence, what I believe, is	4	BY MR. PAGE:
5	possibly attributable to the Polyken coating	5	Q And you didn't have all the data,
6	material on the pipeline, only visible in the more	6	Doctor?
7	higher resolution results obtained at Alpha.	7	MR. JOHNSON: Objection. Form.
8	Q So you've done some pipeline	8	BY MR. PAGE:
9	engineering work in the past?	9	Q Did you
10	A No. I've been involved in pipeline	10	A Well, let's talk about
11	investigations in the past.	11	Q Did you
12	Q Have you ever found one that's	12	A the data
13	leaked?	13	Q Did you
14	A Oh, yeah. That I'm glad you asked	14	A I'm not going to evaluate pipeline
15	that. Because pipelines aren't investigated by	15	integrity data. That's not my area of expertise.
16	someone like me unless there's been a leak, in	16	I'm evaluating chemical data of soils collected
17	which case, we see thousands or tens of thousands	17	along that pipeline, 48 soils collected along that
18	or even hundreds of thousands of parts per million		pipeline, 30 of which were completely clean with
19	petroleum in soils around those leaks.	19	non-detectable hydrocarbons, 18 of which contained
20	Q And you've investigated a leak in a	20	part per million tens a part per million, 15
21	karst environment	21	part per million at most, concentrations of TPH DRO
22	A I have	22	that included natural organic matter, waxy
	Page 226		Page 228
1	Q a pipeline leak?	1	contamination from the laboratory and possibly
2	A I have not investigated a leak in a	2	coating material from the pipeline.
3	karst environment. So while it's true there's 15	3	Q But no diesel?
4	excavations that are clean, in your hypothesis, or	4	A No diesel, no gasoline.
5	the plaintiff's hypothesis, or the plaintiff's	5	Q Okay. And what about the the
6	expert's hypothesis, "Well, it leaked somewhere	6	the samples that were taken from the wells that
7	else." That's irrefutable.	7	were drilled, did you look at those?
8	I mean, of course, unless they dig up	8	A Absolutely.
9	the entire pipeline, you're going to point to that.	9	Q And they didn't contain any refined
10	But as a scientist, I rely upon the data. The data	10	products?
11	showed no releases. The data showed no impacts to	11	A No.
12	water between the pipeline and Tulip Springs, so	12	Q Not at all?
13	the scenario that's being proposed is just not	13	A No.
14	supported by data.	14	It's all explained in my report, and
15	Q Okay. Do you know whether or not	15	I hope we if you want to talk about the water
16	Valero's replaced the pipeline all of the	16	samples that were collected from wells and other
17	pipeline from the refinery to the southern border	17	springs on the property.
18	of the Lazy S Ranch?	18	Q That's all you that's all
19	A No, I do not know.	19	naturally occurring, correct?
20	Q Okay. If I told you that was true,	20	A No.
21	would that affect your analysis?	21	Q Or unconventional sampling methods?
22	MR. JOHNSON: Objection. Form.	22	A The nonconventional samples,
22	Page 227	22	Page 229
	1 age 227		1 age 229

1	your analysis. Is that right?	1	that was the reason about those detection limits
2	A I didn't list them in my list of soil	2	that were reported there.
3	data available to me, no.	3	So I think in that sense, if if
4	Q What were the results I think you	4	those are indeed regulatory thresholds and those
5	testified about this this morning, but I want to	5	data showed entirely non-detect samples, then, of
6	make sure it's clear. What were the results of	6	course, they're useful in some regard in that none
7	those tests?	7	of these soils exceeded regulatory threshold.
8	A I think I mentioned or testified	8	Q I want to ask you now about the
9	earlier, they were all NDs.	9	testing results that did report back with
10	Q "ND" meaning?	10	quantifiable amounts. Let's go to your Table 3.
11	A ND being non-detect for the BTEX and	11	There are let's look at the soil tests where the
12	TPH analysis they were analyzed for.	12	DRO reports are.
13	Q If somebody were looking at whether	13	Can you just give us an example, in
14	or not those kinds of tests met regulatory	14	your experience as a chemist as to what sort of
15	thresholds, could they be useful in your view?	15	volumes we're talking about?
16	MR. PAGE: Object to the form. This	16	I mean how do I picture the results
17	goes beyond the scope of anything I did on direct.	17	that we're seeing here?
18	MR. JOHNSON: It's cross-examination	18	MR. PAGE: Object to the form.
19	about his expert report, they're in his report.	19	THE WITNESS: Well, these detectable
20	You can move to exclude it.	20	levels of TPH DRO, which looking at the range from
21	BY MR. JOHNSON:	21	somewhere around 5 parts per million to 15 parts
22	Q Go ahead.	22	per million in 18 of the 48 samples, the other 30
	Page 242		Page 244
1	MR. PAGE: Regulatory statements are	1	being non-detects. So 5 to 15 PPM is an extremely
2	in his report?	2	low concentration of something being measured as
3	MR. JOHNSON: I'm talking about the	3	TPH. It's certainly not a concentration I would
4	tests that you asked him about.	4	attribute to petroleum-impacted soil from a
5	BY MR. JOHNSON:	5	pipeline release, which I think I mentioned a few
6	Q But go ahead.	6	moments ago would be hundreds, thousands, tens of
7	A I think, you know, they weren't	7	thousands, even hundreds of thousands of PPM.
8	useful to me because I was tasked in looking at	8	That's what I've seen at other pipeline
9	what contamination was present in the soils.	9	investigations that I've worked on.
10	Because of the elevated detection limits, the	10	These levels are just completely
11	higher detection limits that Environmental Testing	11	consistent with what I've seen in them; namely
12	Laboratory used versus those of Accurate	12	natural organic matter and waxy contamination
13	Environmental Lab, for which there were splits, the	13	from the laboratory or possibly the pipeline
14	results from the Accurate Lab were more useful to	14	coating materials, but not petroleum.
15	me because they had lower detection limits, I could	15	BY MR. JOHNSON:
16	see if anything was truly there.	16	Q Last question. If I told you that I
17	The Environmental Testing dataset, on	17	went from Wheeler, Trigg, O'Donnell to Dowd Benett
18	the same set of samples, with the higher detection	18	in 2018, would that impact your testimony at all
19	limits were not useful to me because they didn't	19	about me being at Dowd Bennett when we worked on
20	inform on that. But your question about, might	20	the 2012 or '13 Colorado UST case?
21	they be useful to somebody? Sure. I don't know	21	A Yes, of course.
22	about regulatory thresholds, so I didn't know if	22	Q Do you remember that at all or
1	acout regulatory uncomorate, so I didn't know it		2 Do you remember that at an or
	Page 243		Page 245

1 2 3 4 5 6 7 8	CERTIFICATE OF NOTARY PUBLIC I, FELICIA A. NEWLAND, CSR, the officer before whom the foregoing videotaped deposition was taken, do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me in stenotype and thereafter reduced to typewriting under my direction; that said deposition	2 3 4 5 6	Lazy S Ranch Properties, LLC v. Valero Energy Corporation Scott A Stout , Ph.D., P.G. (#5352742) E R R A T A S H E E T PAGELINECHANGE REASON PAGELINECHANGE
9	is a true record of the testimony given by said	8	
10	witness; that I am neither counsel for, related to,	9	REASON
11	nor employed by any of the parties to the action in	10	PAGELINECHANGE
12	which this deposition was taken; and, further, that I am not a relative or employee of any counsel or	11	
13 14	attorney employed by the parties hereto, nor	12	REASON
15	financially or otherwise interested in the outcome	13	PAGELINECHANGE
16	of this action.	14	
17			REASON
18			PAGELINECHANGE
19	Tumbal		
	1 1 2		REASON
20	FELICIA A. NEWLAND, CSR	19	
	Notary Public	20	
21			
22	My commission expires:		Scott A Stout , Ph.D., P.G. Date
22	September 15, 2024 Page 254	22	Page 256
			-
1	ACKNOWLEDGEMENT OF		Matthew E. Johnson
2	DEPONENT		mjohnson@dowdbennett.com
3		3	October 12, 2022
4	I, SCOTT A. STOUT, Ph.D., P.G., do hereby	4	RE: Lazy S Ranch Properties, LLC v. Valero Energy
5	acknowledge I have read and examined the foregoing	_	Corporation
6	pages of testimony, and the same is a true, correct	5	, , , , , , , , , , , , , , , , , , , ,
7	and complete transcription of the testimony given by	6	The above-referenced transcript is available for
8	me, and any changes or corrections, if any, appear		review.
9 10	in the attached errata sheet signed by me.	8	Within the applicable timeframe, the witness should read the testimony to verify its accuracy. If there are
		10	any changes, the witness should note those with the
11 12		10 11	reason, on the attached Errata Sheet.
13		12	The witness should sign the Acknowledgment of
14		13	Deponent and Errata and return to the deposing attorney.
1.		14	Copies should be sent to all counsel, and to Veritext at
15	Date SCOTT A. STOUT, Ph.D.,	15	errata-tx@veritext.com.
	P.G.	16	
16		17	Return completed errata within 30 days from
17		18	receipt of testimony.
18		19	If the witness fails to do so within the time
19		20	allotted, the transcript may be used as if signed.
20		21	
21			Yours,
22		22	Veritant Local Colutions
	Page 255	22	Veritext Legal Solutions Page 257

Oklahoma
Rule 12-3230
Depositions Upon Oral Examination

F. Review By Witness; Changes; Signing.

The deponent shall have the opportunity to review the transcript of the deposition unless such examination and reading are waived by the deponent and by the parties. After being notified by the officer that the transcript is available, the deponent shall have thirty (30) days in which to review it and, if there are changes in form or substance, to sign a statement reciting such changes and the reasons given by the deponent for making them. The officer shall indicate in the certificate prescribed by paragraph 1 of subsection G of this section whether any review was requested and, if so, shall append any changes made by the deponent during the period allowed.

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2019. PLEASE REFER TO THE APPLICABLE STATE RULES

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